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GOOD-ARK

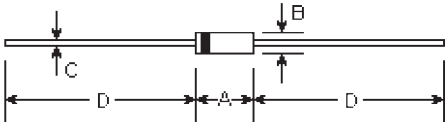
RL101F THRU RL107F

FAST SWITCHING PLASITC RECTIFIER
Reverse Voltage - 50 to 1000 Volts
Forward Current - 1.0 Ampere

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Fast switching for high efficiency
- Construction utilizes void-free molded plastic technique
- 1.0 ampere operation at T_A=55℃ with no thermal runaway
- High temperature soldering guaranteed: 250℃/10 seconds, 0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

A-405



Maximum Ratings

- **Case:** A-405 molded plastic body
- **Terminals:** Plated axial leads, solderable per MIL-STD-750, method 2026
- **Polarity:** Color band denotes cathode end
- **Mounting Position:** Any
- **Weight:** 0.008 ounce, 0.23 gram

DIMENSIONS					
DIM	inches		mm		Note
	Min.	Max.	Min.	Max.	
A	0.165	0.205	4.2	5.2	
B	0.079	0.106	2.0	2.7	ф
C	0.020	0.024	0.5	0.6	ф
D	1.000	-	25.40	-	

Maximum Ratings and Electrical Characteristics @25℃ unless otherwise specified

	Symbols	RL101F	RL102F	RL103F	RL104F	RL105F	RL106F	RL107F	Units
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Average forward current at T_A=55℃	$I_{(AV)}$	1.0							Amp
Peak forward surge current 8.3mS single half sine-wave	I_{FSM}	30.0							Amps
Maximum instantaneous forward voltage at I_{FM}=1.0A; T_J=25℃ (Note 3)	V_F	1.30							Volts
Maximum DC reverse current T_J=25℃ at rated DC blocking voltage T_J=100℃	I_R	5.0 100.0							μA
Maximum reverse recovery time (Note 1)	T_{rr}	150				250	500		nS
Typical junction capacitance (Note 2)	C_J	15.0							ρF
Maximum thermal resistance	$R_{\theta JL}$	50							℃/W
Operating and storage temperature range	T_J, T_{STG}	-65 to +175							℃

Notes:

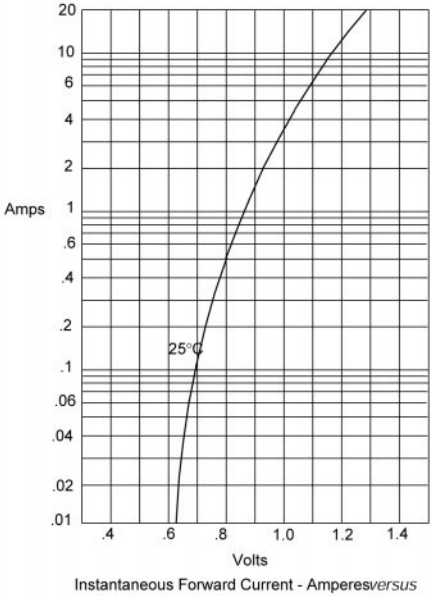
(1) Reverse recovery test conditions: I_F=0.5A, I_R=1.0A, I_{rr}=0.25A

(2) Measured at 1.0MHz and applied reverse voltage of 4.0 volts

(3) Pulse test: pulse width 300uSec, Duty cycle 2%

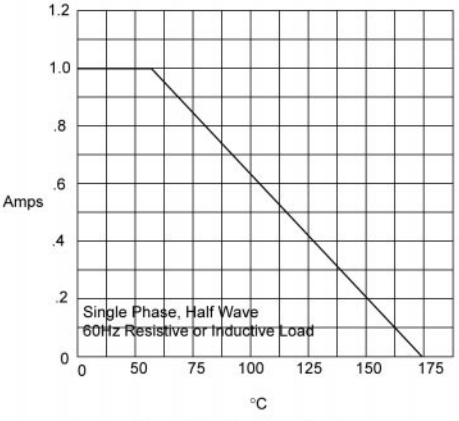
RATINGS AND CHARACTERISTIC CURVES

Figure 1
Typical Forward Characteristics



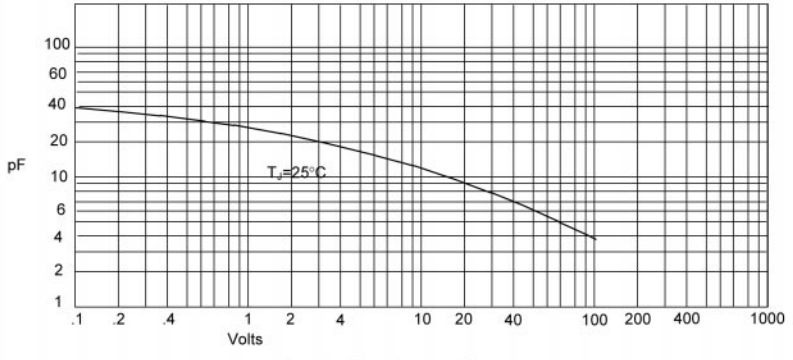
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



Average Forward Rectified Current - Amperes *versus*
Ambient Temperature -°C

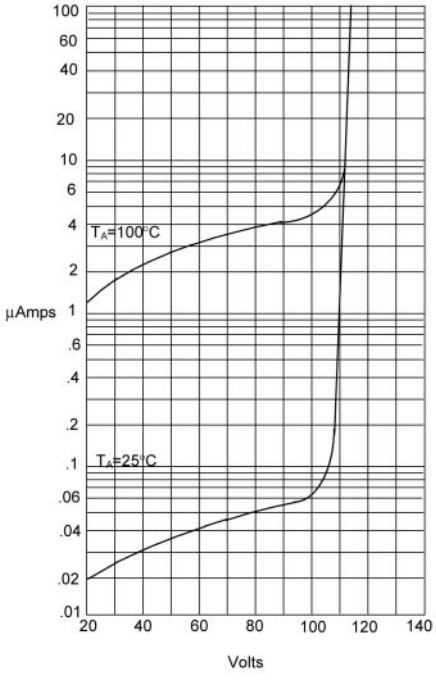
Figure 3
Junction Capacitance



Junction Capacitance - pF *versus*
Reverse Voltage - Volts

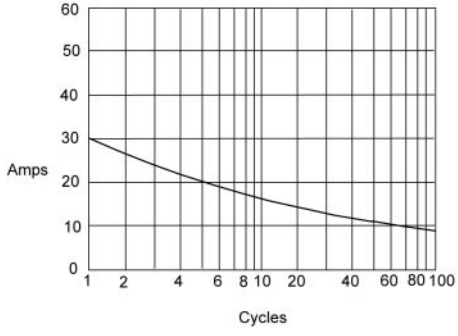
RATINGS AND CHARACTERISTIC CURVES

Figure 4
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - MicroAmperes *versus*
Percent Of Rated Peak Reverse Voltage - Volts

Figure 5
Peak Forward Surge Current



Peak Forward Surge Current - Amperes *versus*
Number Of Cycles At 60Hz - Cycles